

FIG. 1

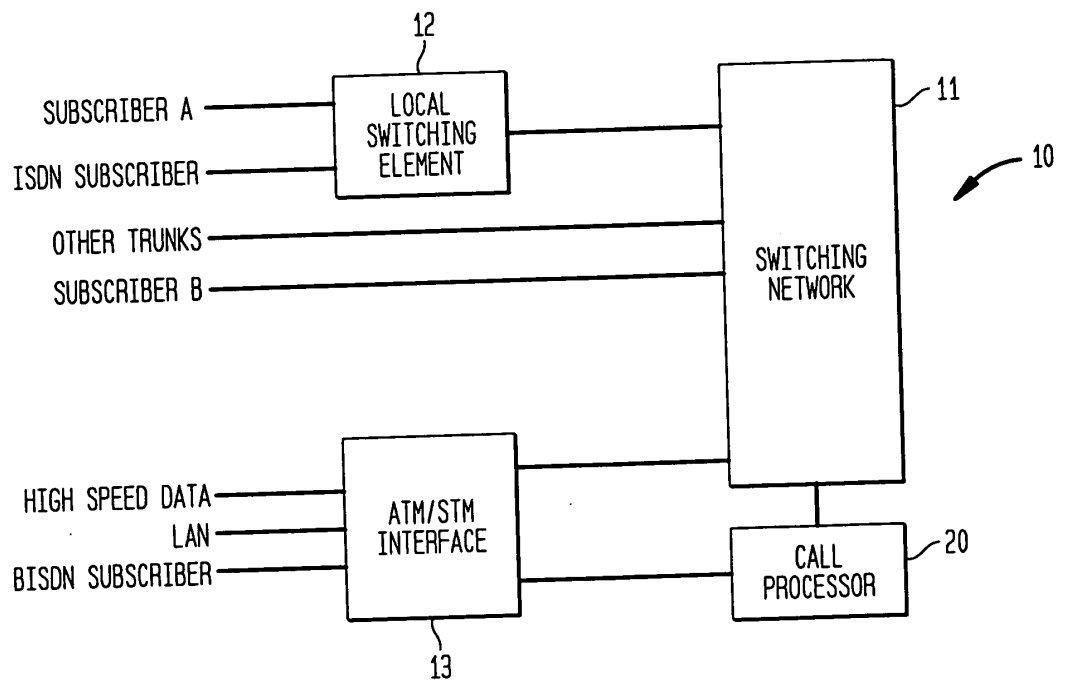


FIG. 2A

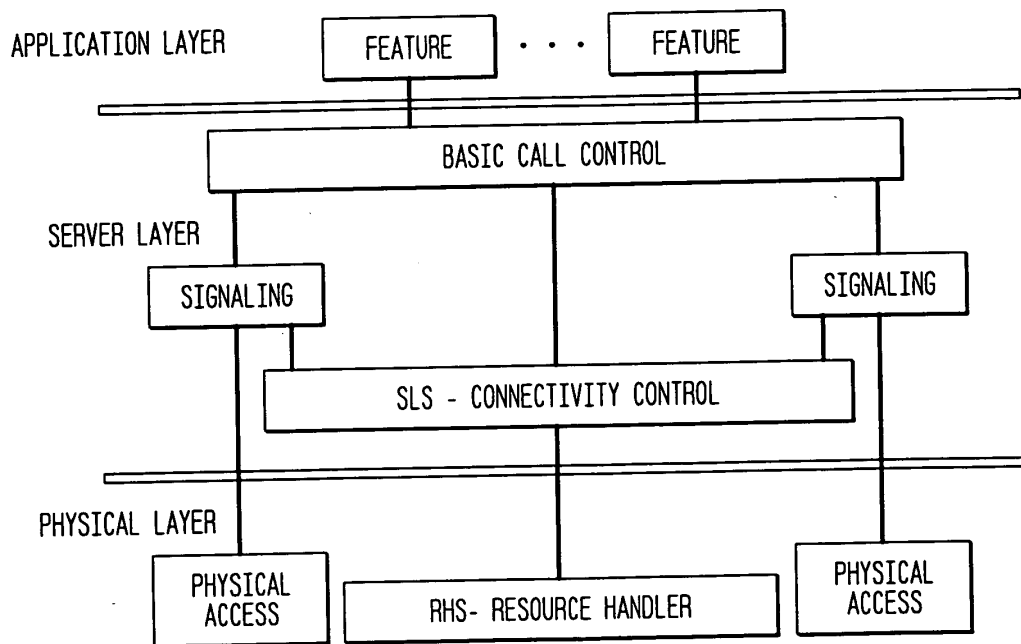


FIG. 2B

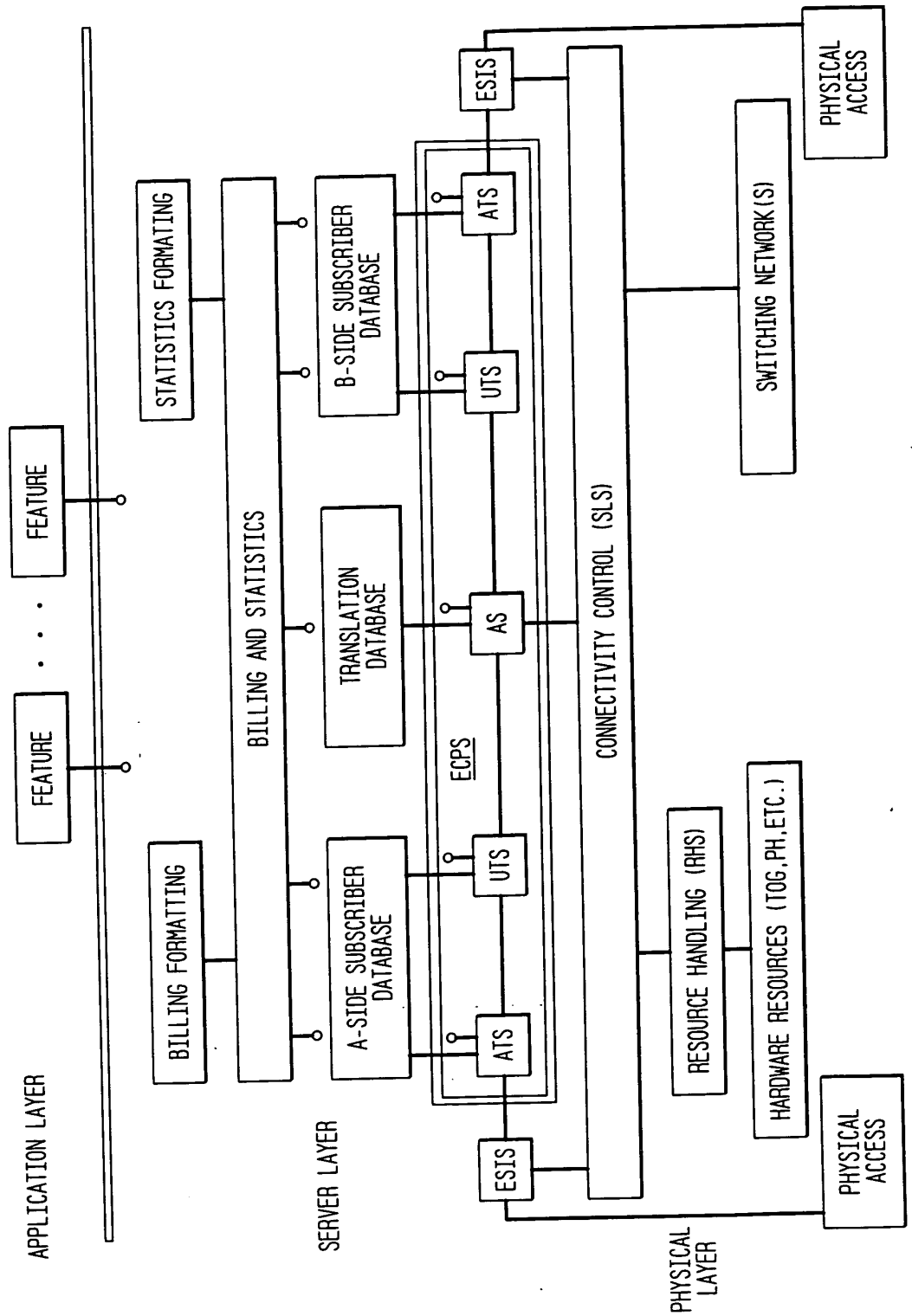
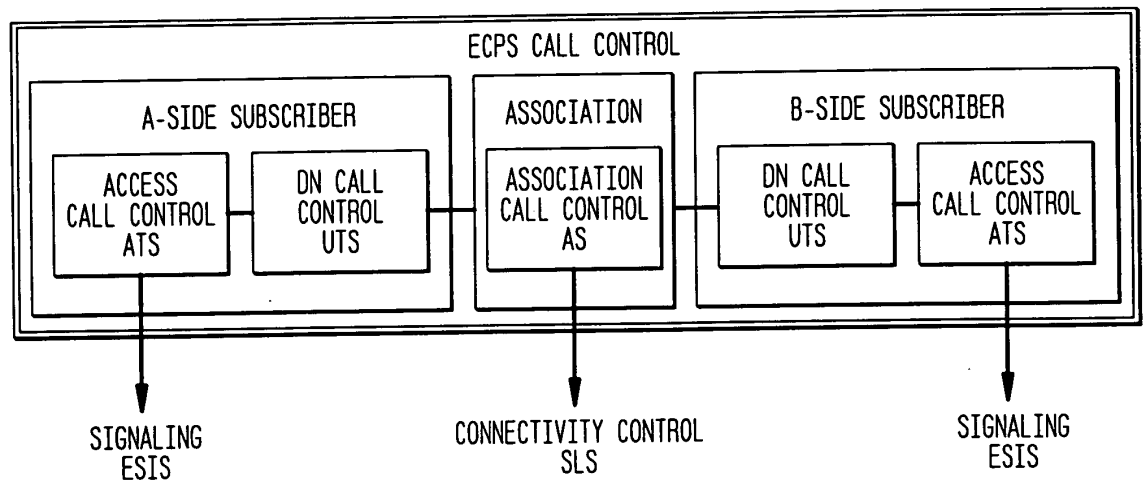


FIG. 2C



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FIG. 3A

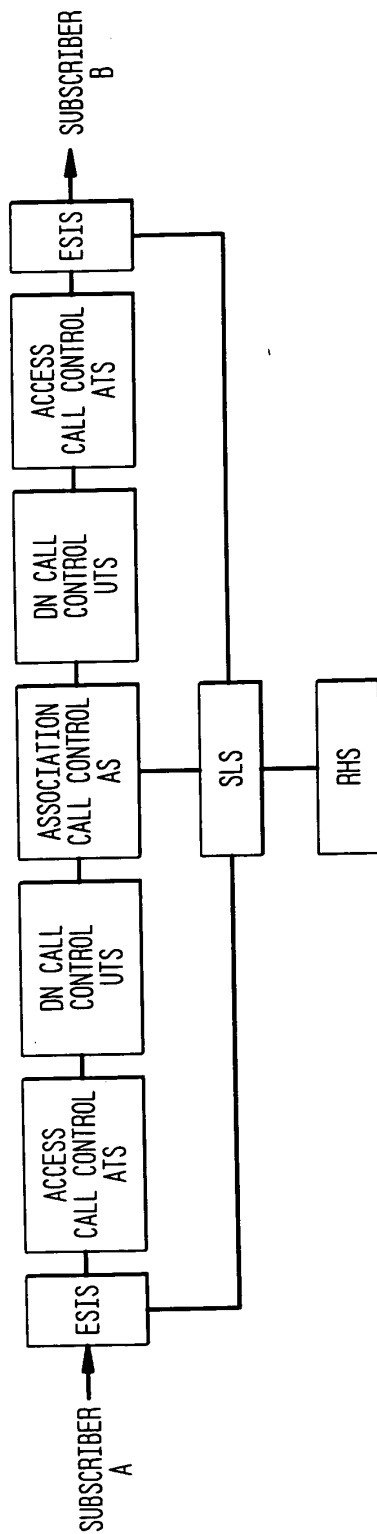


FIG. 3B

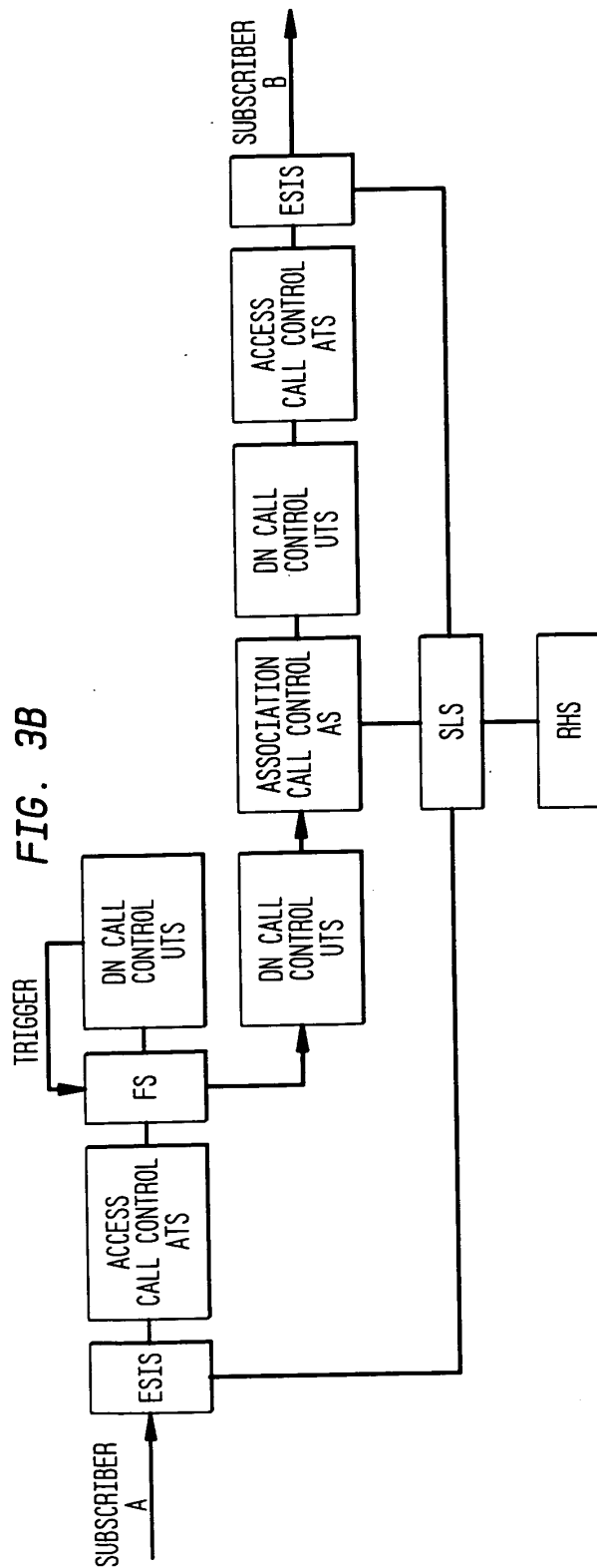
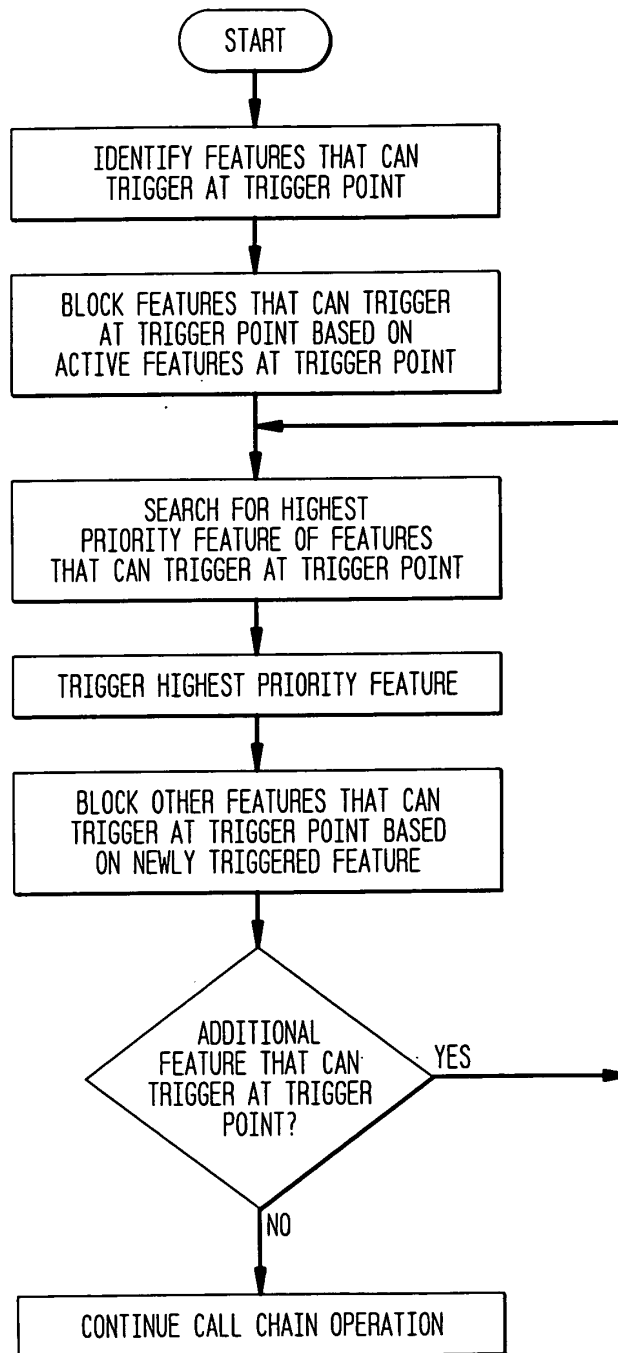


FIG. 4



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FIG. 5

FEATURES (in priority order)

		F1	F2	F3	F4	F5	.	.	.	Fn
FEATURES (in priority order)	F1	Bit map representing specific feature interaction between F1 and above features (depending on table)								
	F2						.	.	.	.
									.	
									.	
	Fn						.	.	.	.

FIG. 6

FEATURES (in priority order)

	F1	F2	F3	F4	F5	.	.	.	F _n
	Bit map indicating whether above feature (F _x) can trigger at this specific Trigger Point (T _i)								
T ₁									
	Data per feature indicating action to take if feature above does trigger (i.e. operation)								
T ₂						.	.	.	.
T _n						.	.	.	.

FIG. 7

FEATURES (in priority order)

F1	F2	F3	F4	F5	.	.	.	Fn
Bit map representing specific features								

FIG. 8A

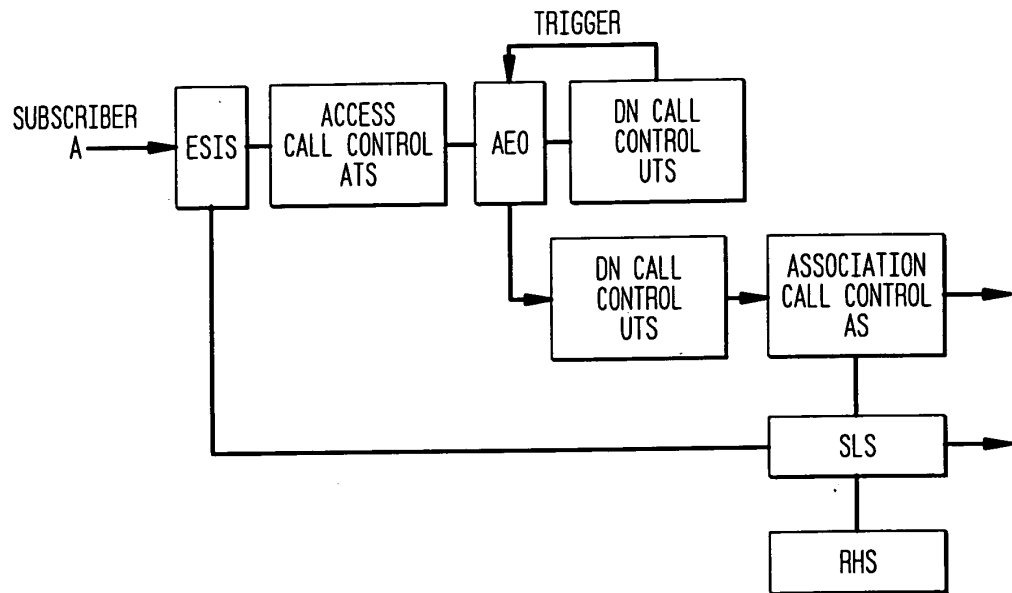
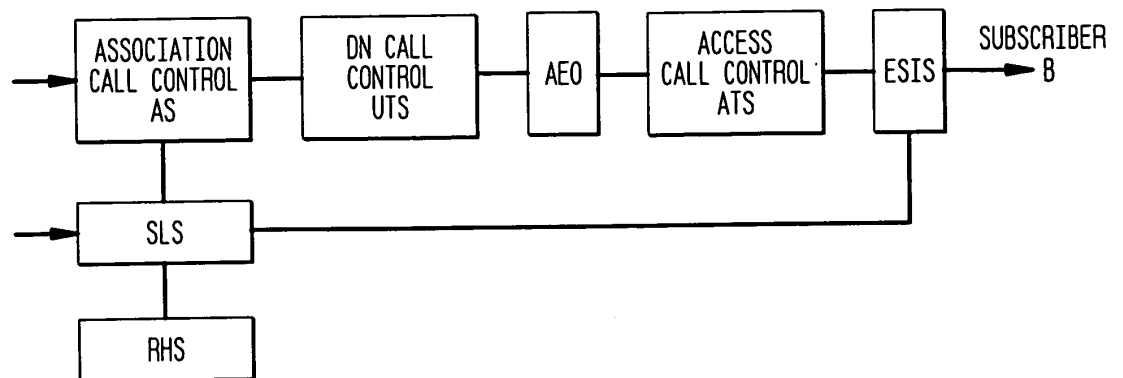


FIG. 8B



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FIG. 8C

INITIAL CONDITION: A-party is busy with a call and subscribes to DND, CF, and CW. An operator activates AEO and calls the A-party (i.e. AEO has set a persistent trigger condition at the "SUBSCRIBER BUSY" trigger point).

TRIGGER POINT: SUBSCRIBER BUSY (A-party)

STEP (1) Determine features which could trigger at this trigger point based on Trigger Point Table, subscribed features, requested features and persistent features.

SUBSCRIBER BUSY TRIGGER POINT ROW	<table><tr><td>N</td><td>Y</td><td>Y</td><td>Y</td></tr></table>	N	Y	Y	Y
N	Y	Y	Y		
	AND				
SUBSCRIBER FEATURE BITMAP	<table><tr><td>N</td><td>Y</td><td>Y</td><td>Y</td></tr></table>	N	Y	Y	Y
N	Y	Y	Y		
	OR				
PERSISTENT FEATURE BITMAP	<table><tr><td>Y</td><td>N</td><td>N</td><td>N</td></tr></table>	Y	N	N	N
Y	N	N	N		
<hr/>					
RESULT	<table><tr><td>Y</td><td>N</td><td>N</td><td>N</td></tr></table>	Y	N	N	N
Y	N	N	N		

FIG. 8D

STEP (2) Block features based on active features.

The RESULT above remains unchanged since there are no active features on the called line.

FIG. 8E

STEP (3a) DO WHILE there are features to trigger

SEARCH (RESULT bit map) = AEO (AEO is most significant bit set to Y)

STEP (3b) Trigger highest priority feature (based on Trigger Point Table lookup)

Based on trigger point table entry for the AEO, feature operation 1 is performed; AEO software is triggered which controls termination to the A-party.

STEP (3c) Block features based on newly triggered feature

OLD RESULT

Y	Y	Y	Y
---	---	---	---

AND

AEO TRIGGERED FEATURE BLOCKING ROW

N	N	N	N
---	---	---	---

NEW RESULT

N	N	N	N
---	---	---	---

At this point the NEW RESULT bit map is empty indicating no further feature triggers are required

FIG. 8F

FEATURE PRIORITY LIST (1 being highest priority)	
1	Attendant Emergency Override (AEO)
2	Do Not Disturb (DND)
3	Call Forwarding (CF)
4	Call Waiting (CW)

FIG. 8G

SUBSCRIBER FEATURE BITMAP			
AEO	DND	CF	CW
N	Y	Y	Y

FIG. 8H

TRIGGERED FEATURE BLOCKING TABLE				
	AEO	DND	CF	CW
AEO	N	N	N	N
DND	Y	N	N	N
CF	Y	Y	N	N
CW	Y	Y	Y	N
'N' IMPLIES FEATURE IS BLOCKED				

FIG. 8I

TRIGGER POINT TABLE				
	AEO	DND	CF	CW
	N	Y	Y	Y
TRIGGER PT SUBSCRIBER BUSY	SUPPORTING DATA			
	AEO: action=1 DND: action=1 CF: action=1 CW: action=1			

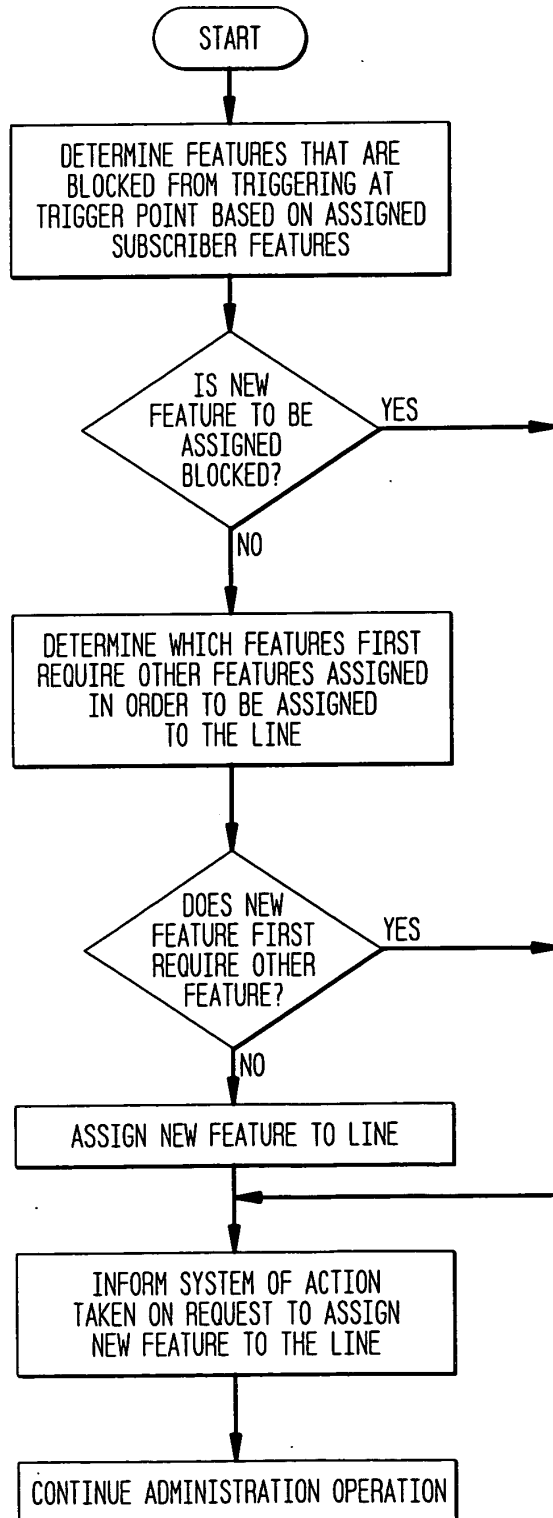
action 1 = Trigger Related Feature

FIG. 8A

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FIG. 9



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FIG. 10A

FEATURE PRIORITY
(1 BEING HIGH PRIORITY)

FEATURE

- 1 MANUAL LINE (HOTLINE)
- 2 VOICE DATA PROTECTION (VDP)
- 3 ATTENDANT EMERGENCY OVERRIDE (AEO)
- 4 DENIED TERMINATION (DT)
- 5 DO NOT DISTURB (DND)
- 6 NOT MAKE BUSY KEY (NMBK)
- 7 CALL FORWARD INHIBIT MAKE BUSY (CFIMB)
- 8 MAKE BUSY KEY (MBK)
- 9 CALL FORWARD INHIBIT LINE BUSY (CFILB)
- 10 DIAL CALL WAITING (DCW)
- 11 SELECTIVE CALL FORWARD (SCF)
- 12 CALL FORWARD VARIABLE (CFV)

FIG. 10B

FEATURES (IN PRIORITY ORDER)

	1	2	3	4	5	6	7	8	9	10	11	12
FEATURE POSSIBLE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

FIG. 10C

FEATURES (IN PRIORITY ORDER)

	1	2	3	4	5	6	7	8	9	10	11	12
SUBSCRIBER FEATURE	N	N	N	N	N	N	N	N	N	N	N	Y

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Features (in priority order)

	1	2	3	4	5	6	7	8	9	10	11	12
1 HOTLINE												
2 VDP												
3 AEO												
4 DT												
5 DND												
6 NMBK												
7 CFIMB	Y	Y	Y	N	Y	Y	Y	Y	N	Y	Y	Y
8 MBK	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
9 CFILB												
10 DCW												
11 SCF												
12 CFV	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y

FIG. 10E

[illegible]

AND

[illegible][illegible]

FIG. 10F

Features (in priority order)

[illegible]

FIG. 10G

[illegible]